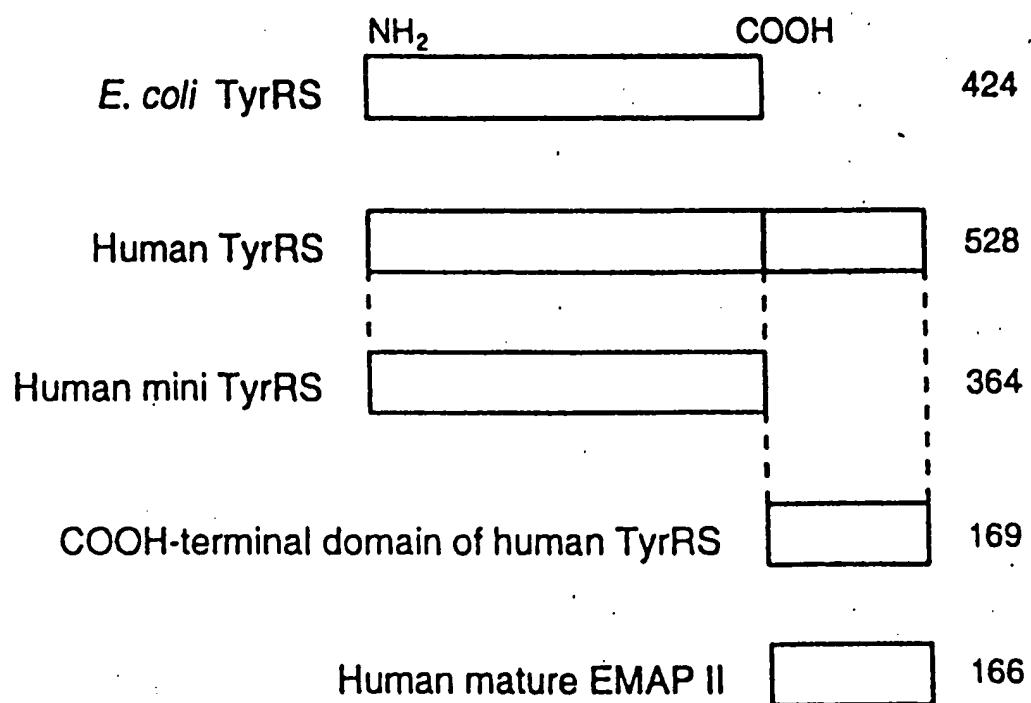


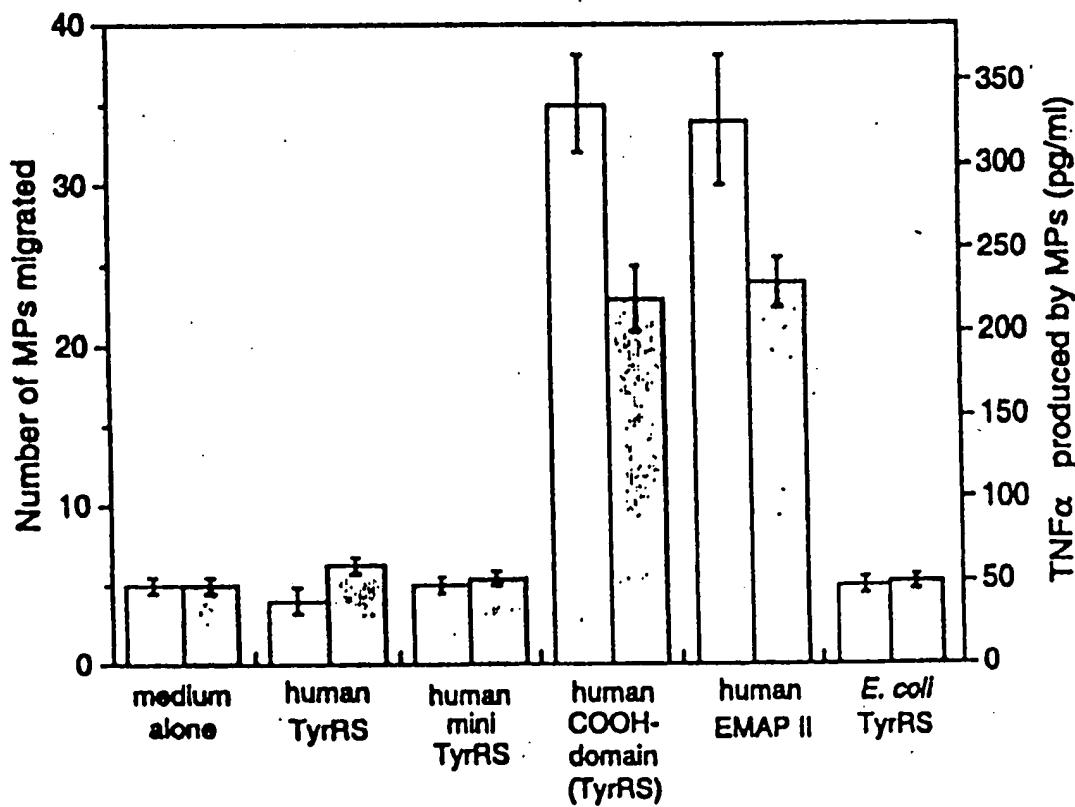
09/8/87, 7/8  
1 of 25

Figure 1



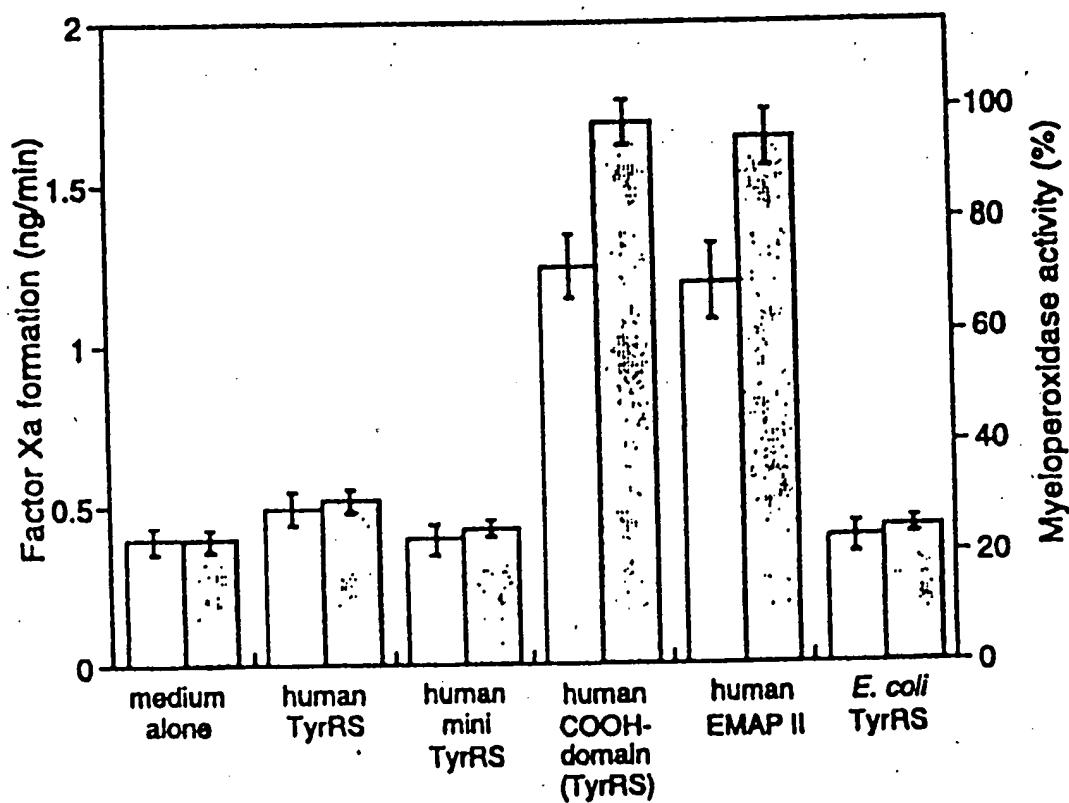
09/8/13, 718  
2 of 25

Figure 2



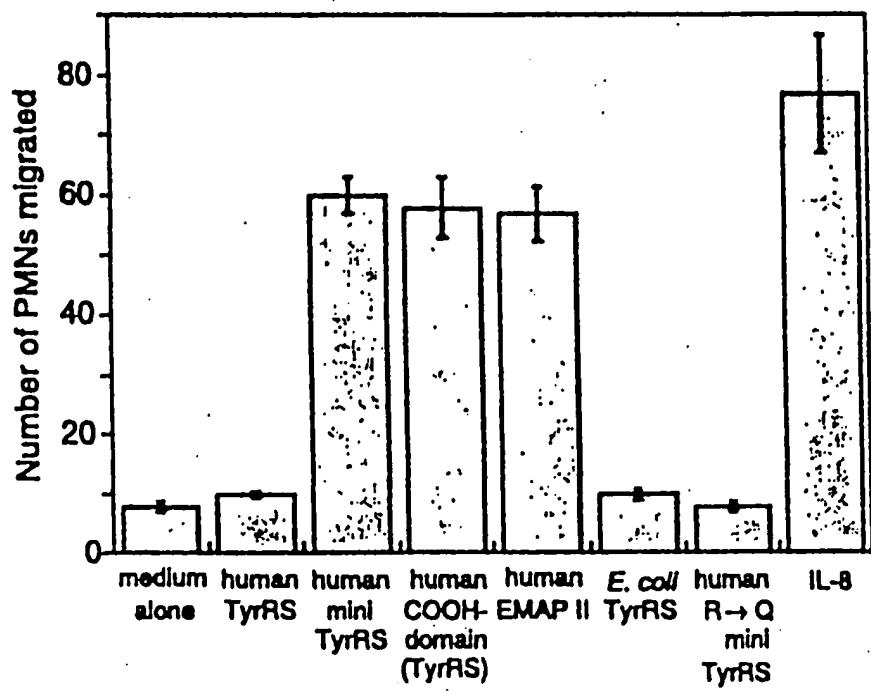
09/813, 718  
3 of 25

Figure 3



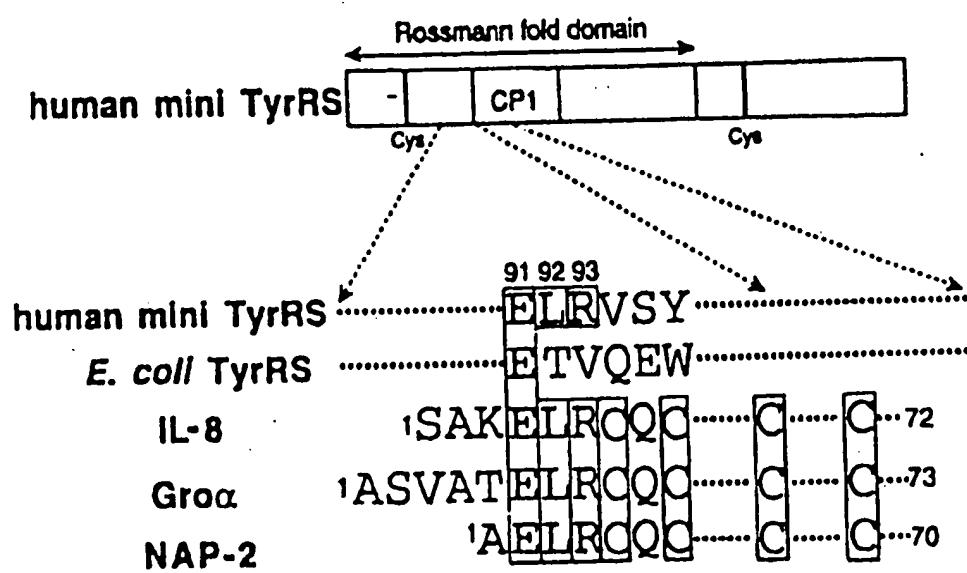
09/8/83, 918  
4425

Figure 4



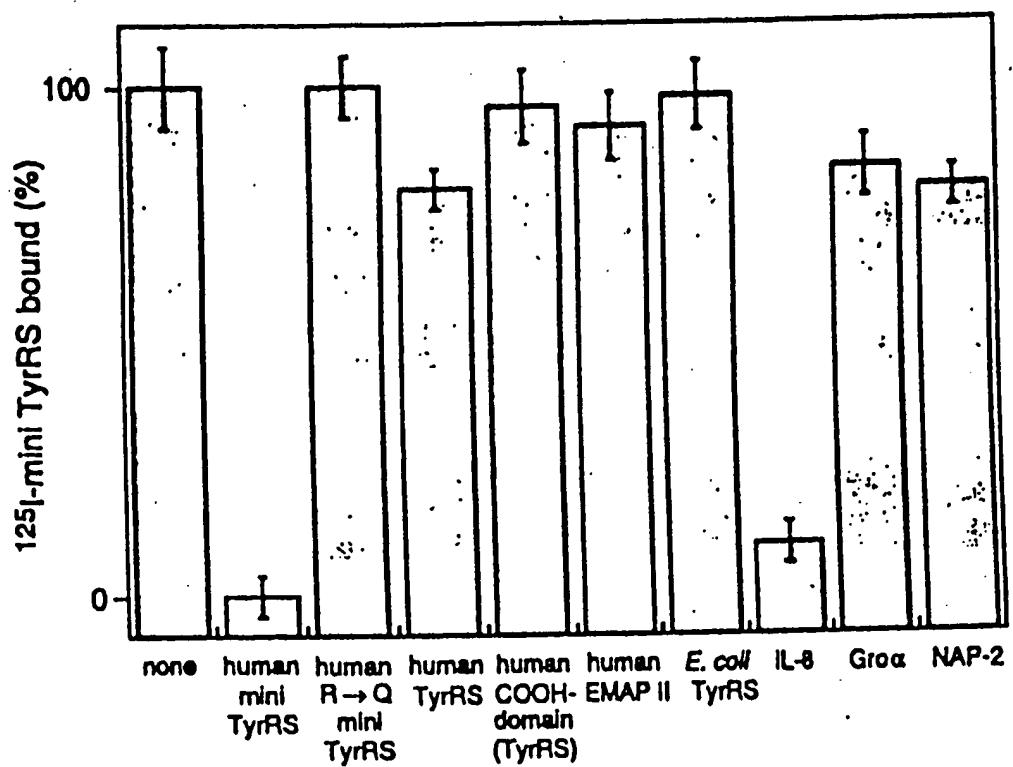
09/813,718  
5 of 25

Figure 5



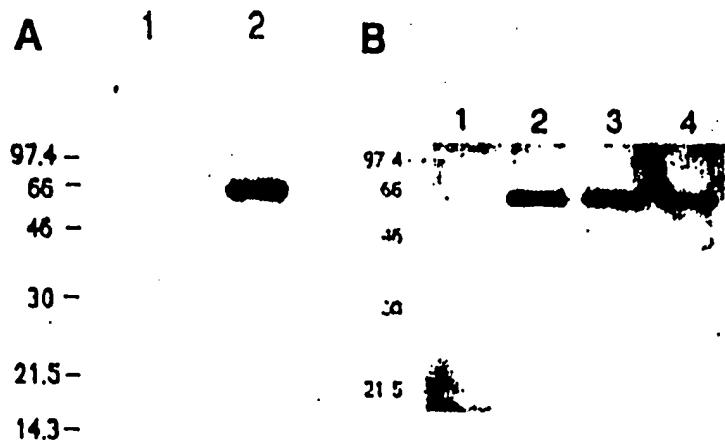
09/8/3, 7/18  
6 of 25

Figure 6



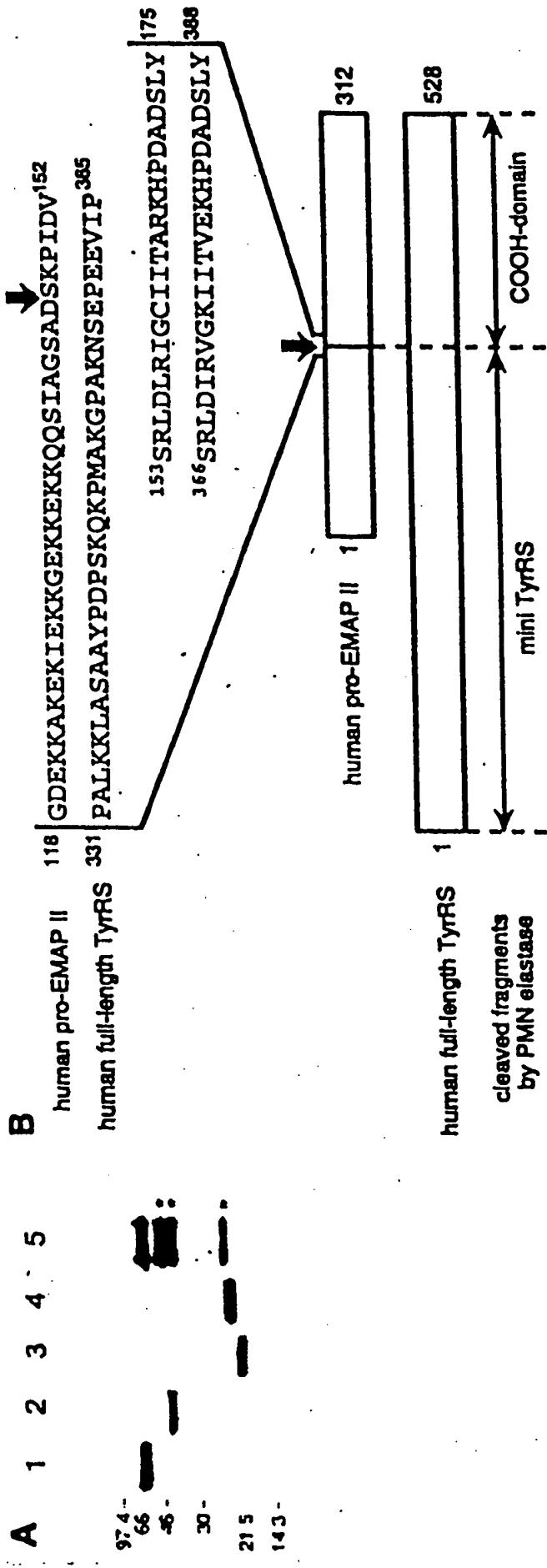
09/8/3, 7/8  
7 of 25

Figure 7



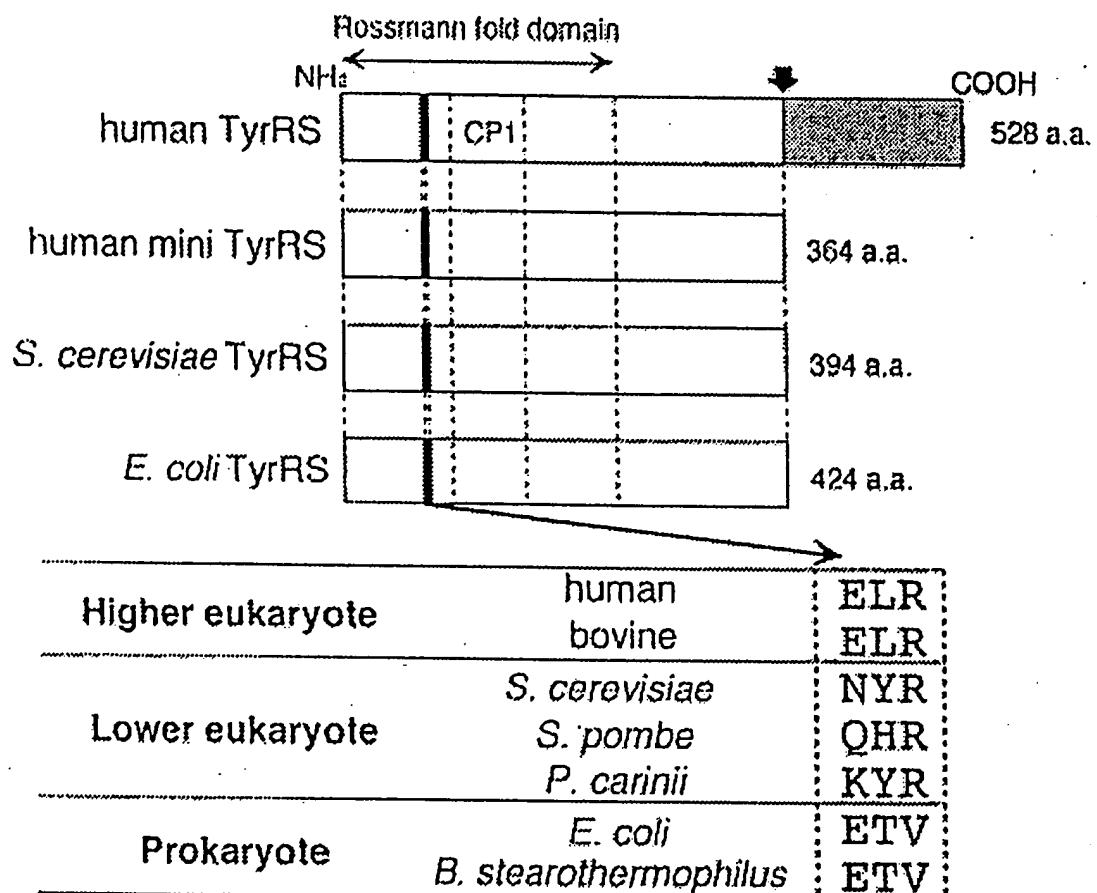
09/8/3, 7/18  
8 of 25

Figure 8



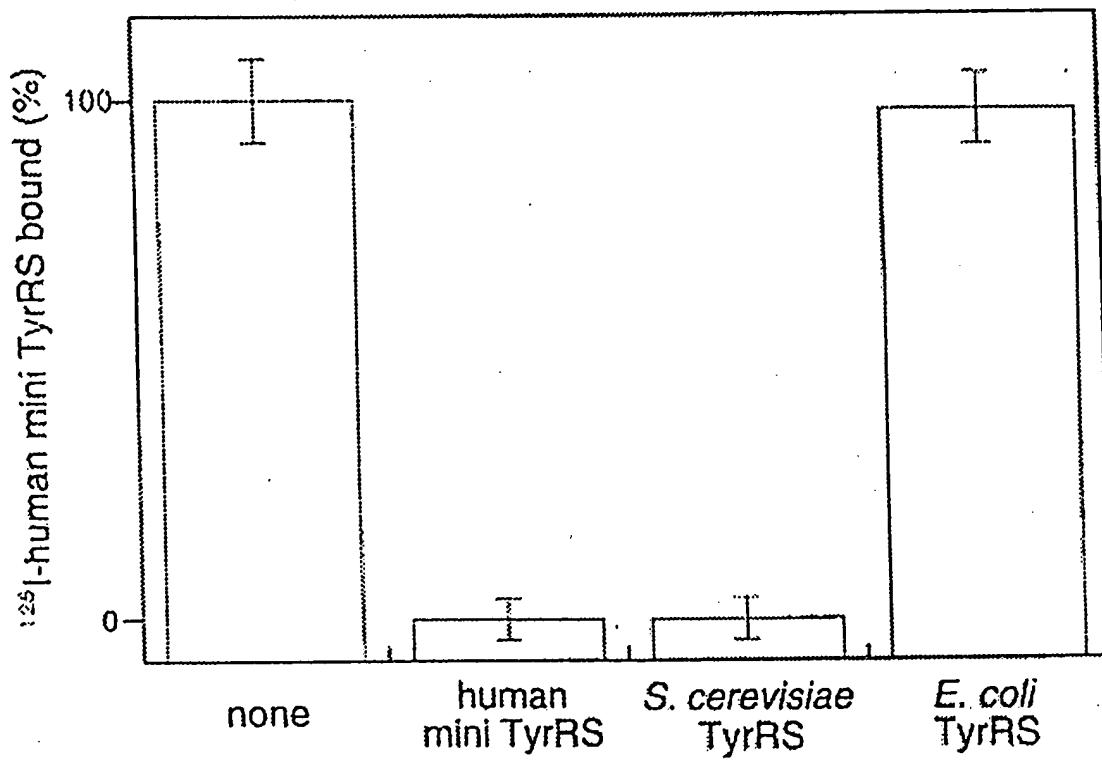
09/8/83, 718  
9 y 25

Figure 9



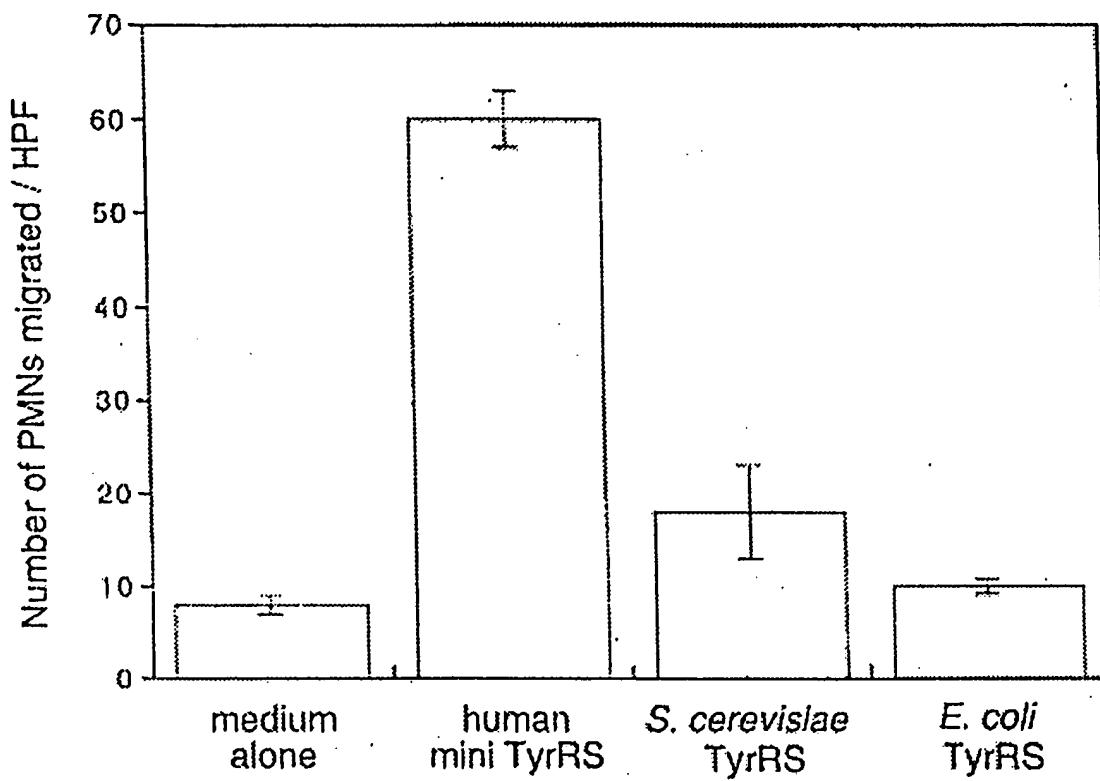
09/8/87, 7/8  
10 of 25

Figure 10



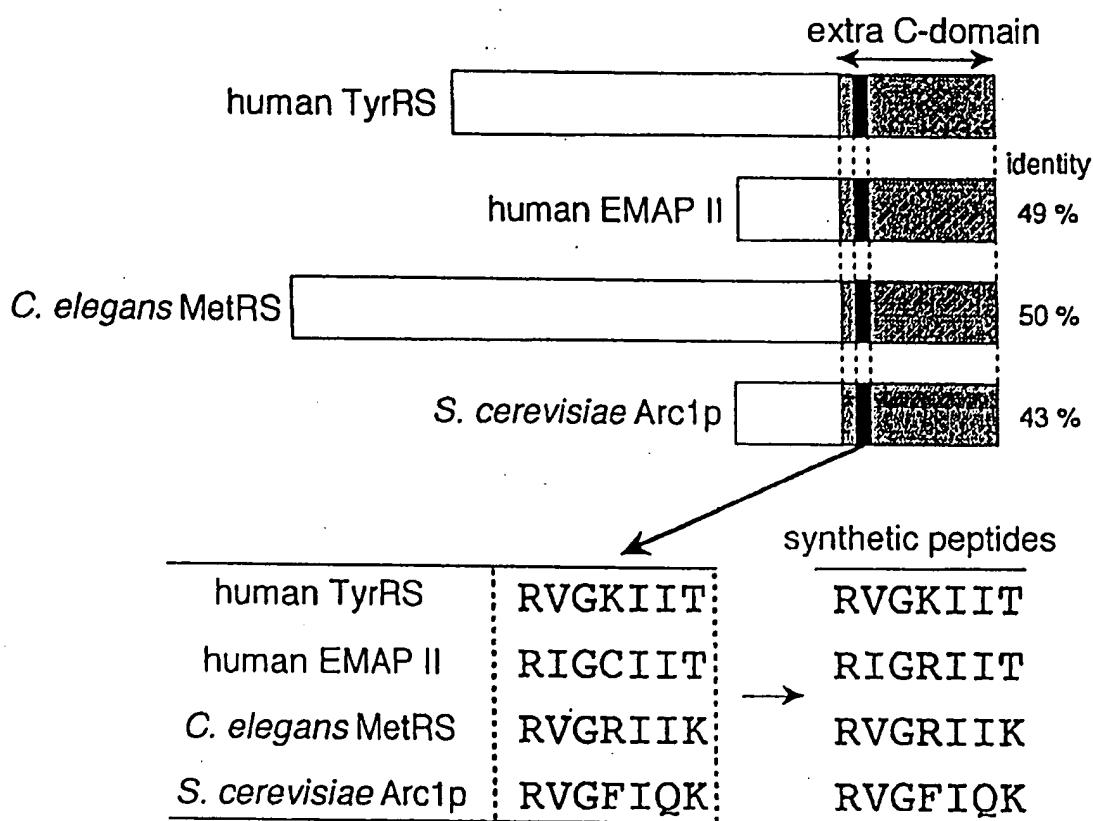
09/8/3, 7/18  
11 of 25

Figure 11



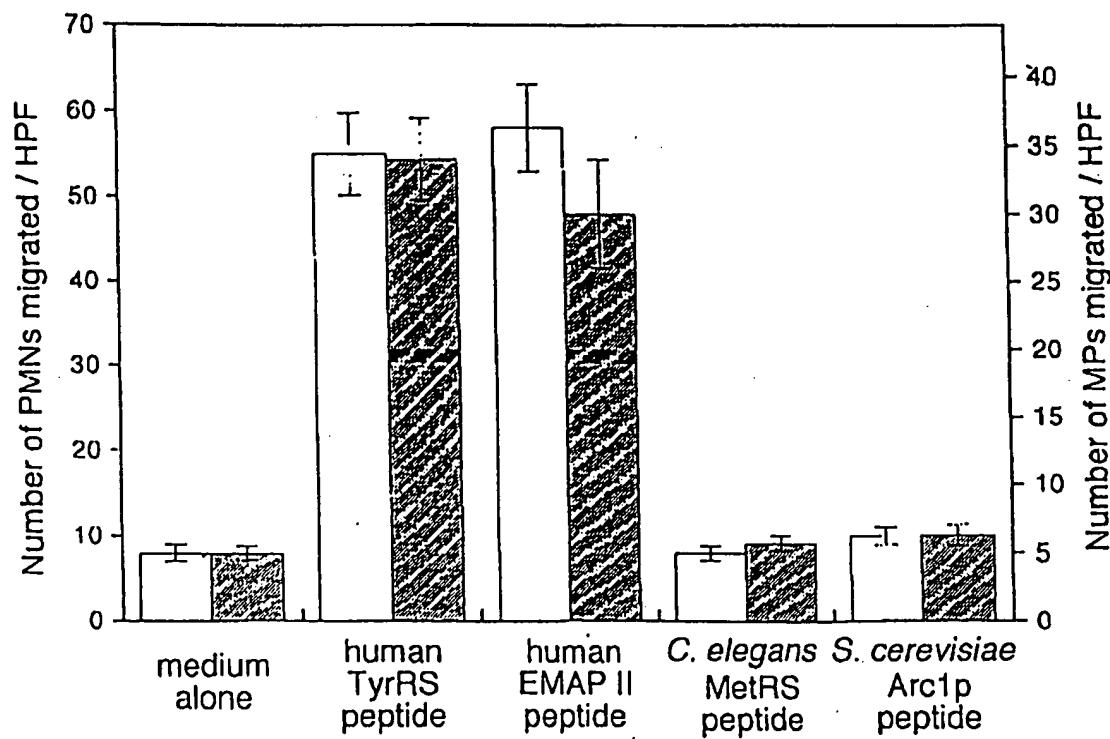
09/8/3, 718  
12 of 25

Figure 12



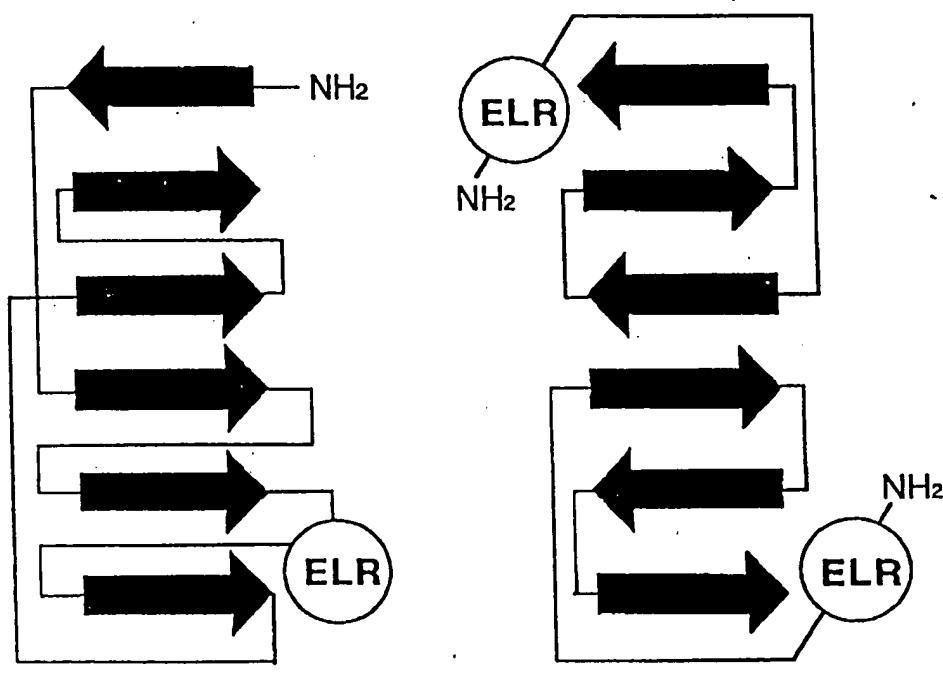
09/8/13, 718  
13 of 25

Figure 13



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14 of 25

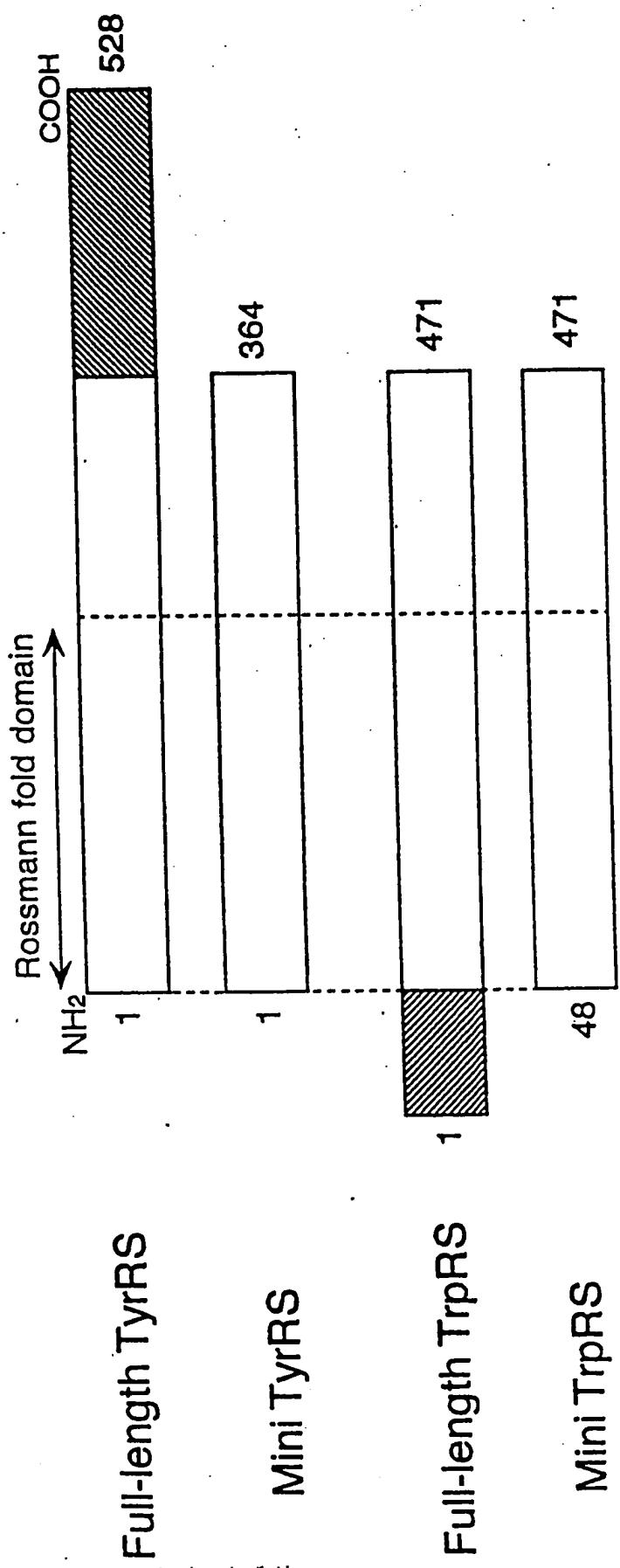
Figure 14



human mini TyrRS     $\alpha$ -chemokines

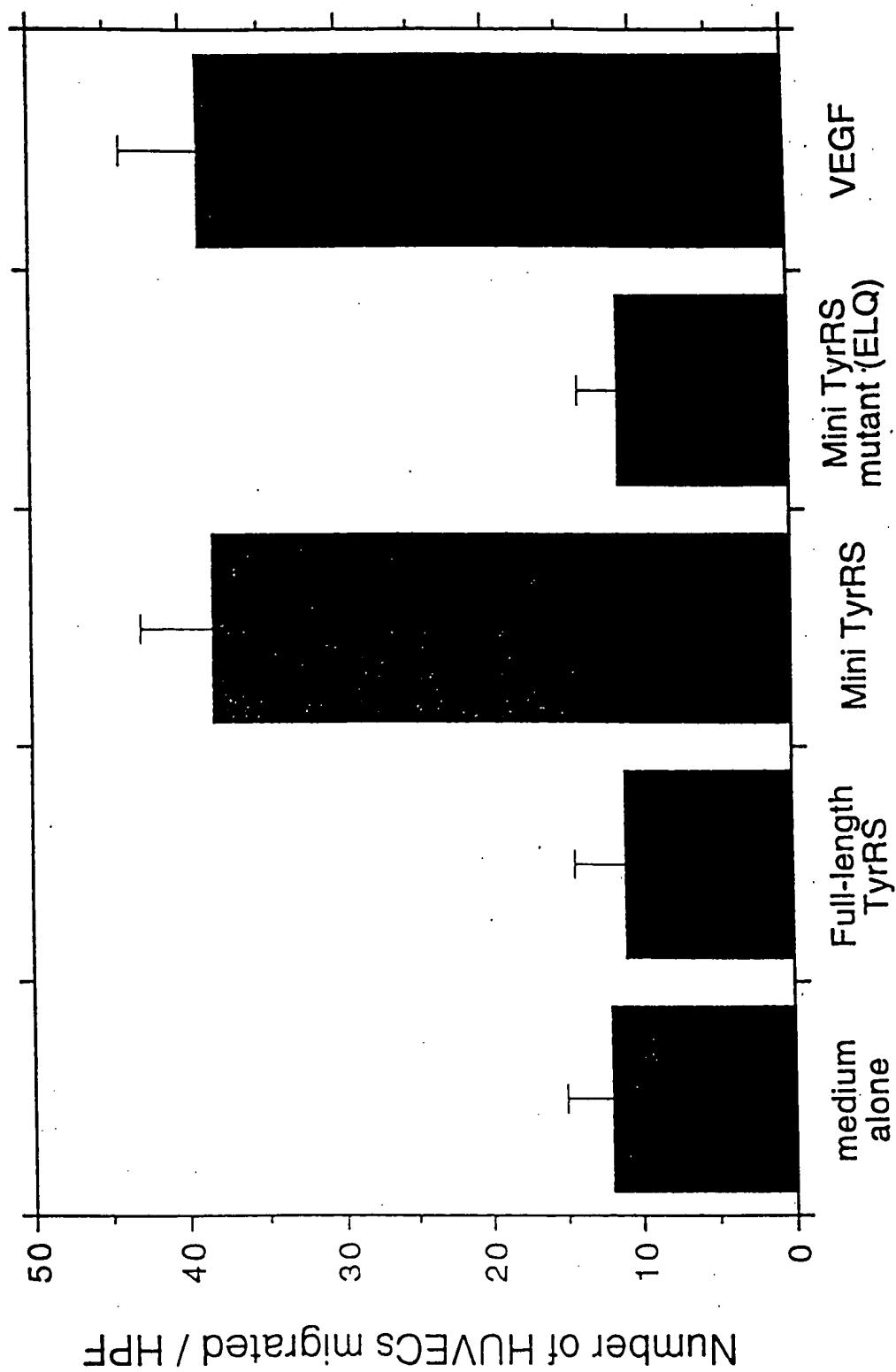
09/8/3, 7/18  
15/25

Figure 15



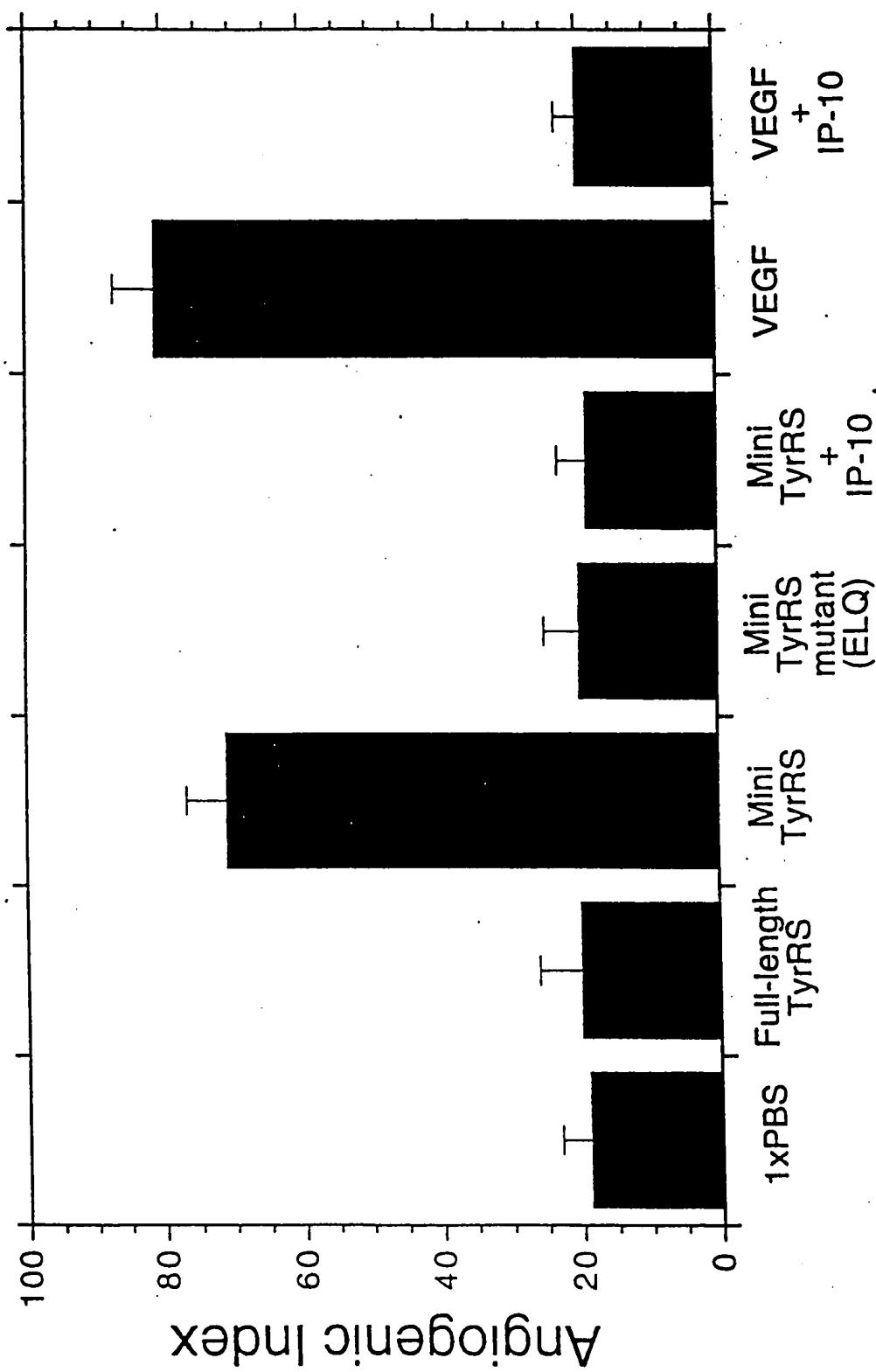
09/8/3, 7/8  
16925

Figure 16



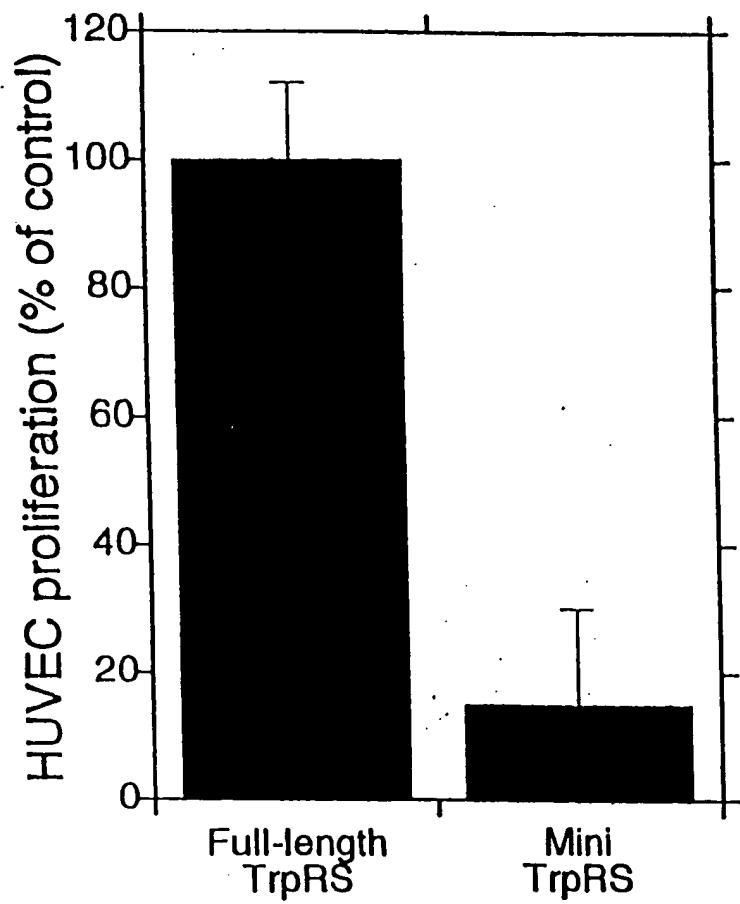
09/8/3, 718  
17 of 25

Figure 17



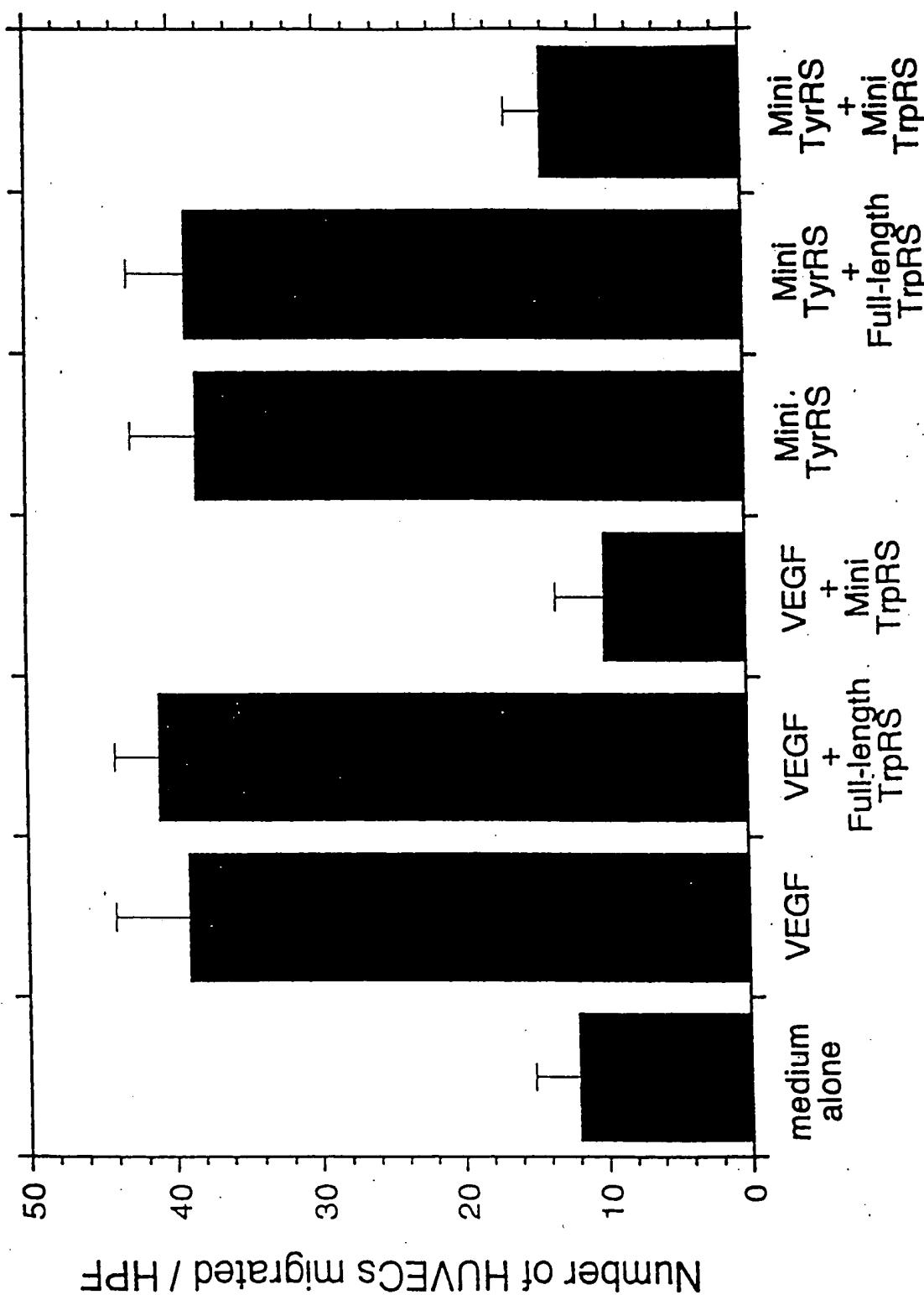
09/8/3, T/B  
18g25

Figure 18



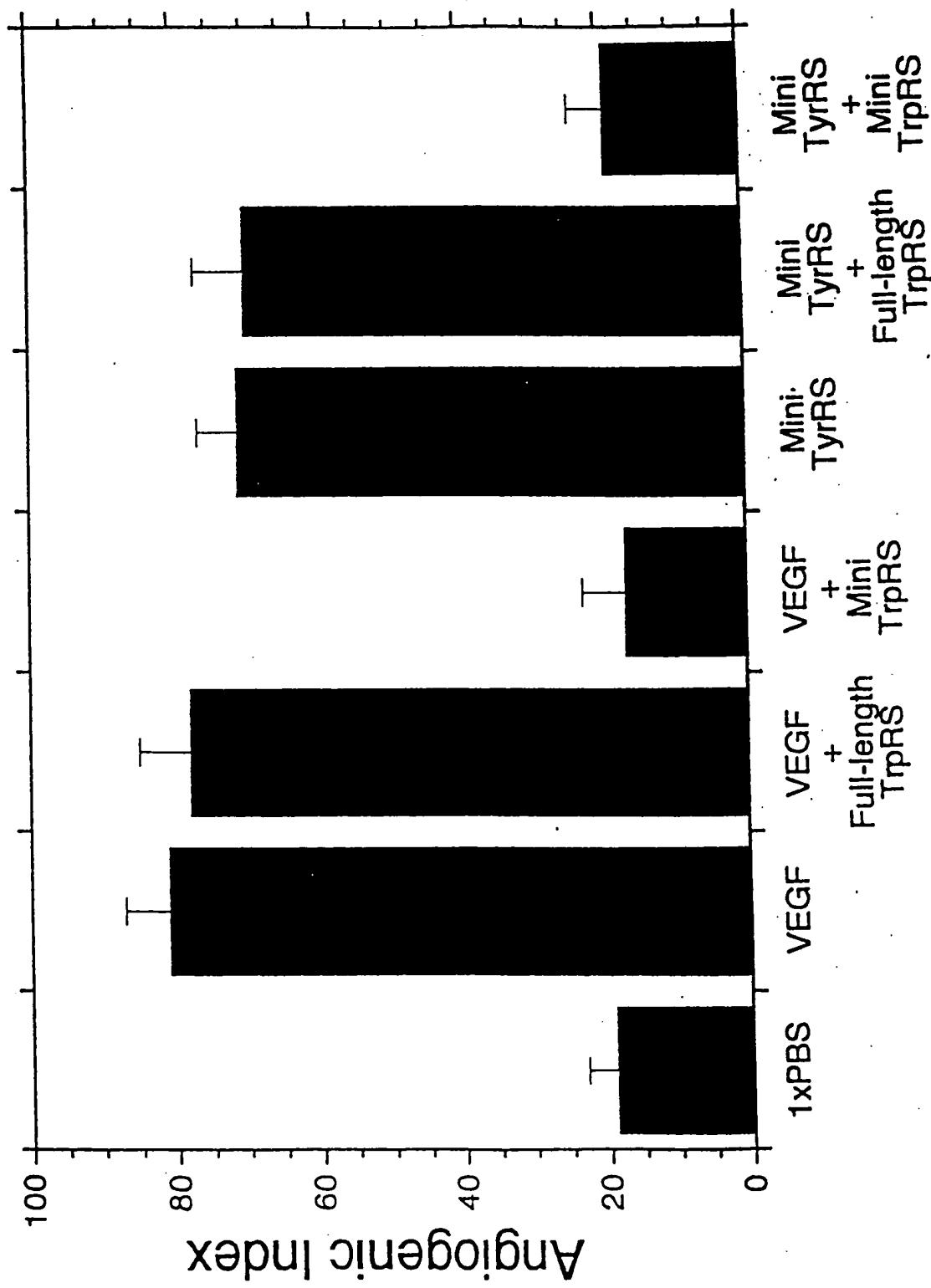
09/8/13, 7:19  
19 of 25

Figure 19



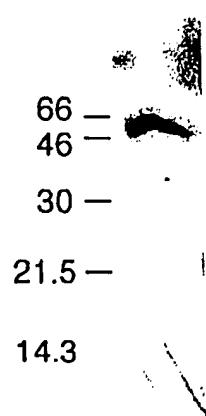
09/8/13, 719  
26 of 26

Figure 20



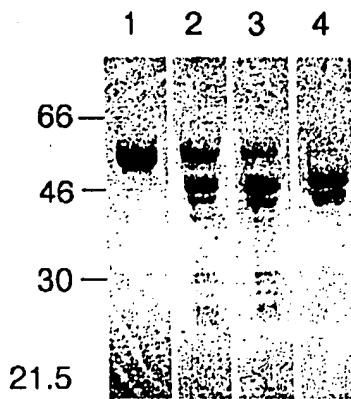
09/8/3, 719  
21 of 25

Figure 21



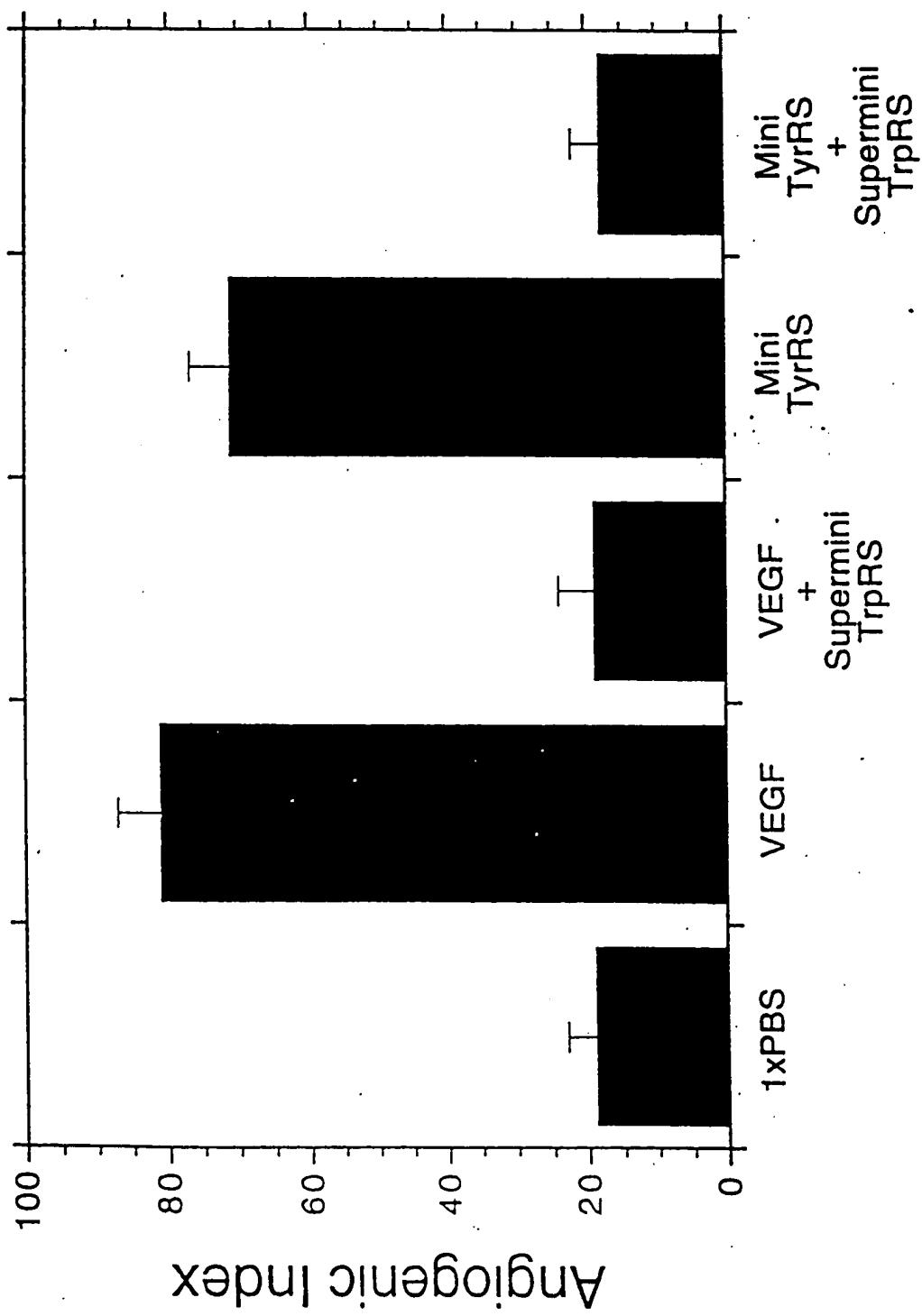
09/813, 719  
22 9/25

Figure 22



09/03/19  
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Figure 23



Mini TrpRS      Supermini TrpRS

		48	MSYKAAAGEDDYKADCPPGNPAPTSNHGPDATEAEEDFVDPWTV	90
bovine TrpRS		43	TSYKAATGDEDYKVDCKPPGDPAPESGEGLDATEAEDEDFVDPWTV	85
mouse TrpRS		42	MSYKAAAMGEFEYKAGC CPPGNPTAGRNCDS DATAKASEDFVDPWTV	84
rabbit TrpRS		42	TSYKEAMGEDDYKADC CPPGNSTPD SHGDPEAVDDKEDFVDPWTV	84
human semaphorin-E		364	ISYQGRIPYPRPGT CPGGAFTPNMRTTKDFPDDVVT FIRNHPL	406
mouse semaphorin-E		364	ISYQGRIPYPRPGT CPGGAFTPNMRTTKDFPDDVVT FIRNHPL	406
		**	**	**
		**	**	**

Figure 24

Minor TrpRS fragment

91	QTSSAKGIDYDKLIVRFGSS-KIDKELINRIERATGQRPHHFL	132
86	QTSSAKGIDYDKLIVRFGSS-KIDKELINRIERATGQRPHRFL	127
85	RTSSAKGIDYDKLIVQPGSS-KIDKELINRIERATGQRPHRFL	126
85	RTSSAKGIDYDKLIVQFGSS-KIDKELINRIERATGQRPHRFL	126
407	MYNSIYPIHKRPLIVRIGTDYKTYTKIAVDRVNAADG RYHVLFL	449
407	MYNSIYPIHKRPLIVRIGTDYKTYTKIAVDRVNAADG RYHVLFL	449
	**	**
	**	**
	**	**

Mammalian  
Full-length TrpRS

Rossmann fold domain

Supermini TrpRS

52	AAAGEDYKADC PPGNPAPTSNHGPDATEAEEDFVDPWTVQTS SAKG	97
47	AATGDEDYKVDCKPPGDPAPESGEGLDATEAEDEDFVDPWTVQTS SAKG	92
46	AAMGEFEYKAGC CPPGNPTAGRNCDS DATAKASEDFVDPWTVRTSSAKG	91
46	EAMGEDYKADC CPPGNSTPD SHGDPEAVDDKEDFVDPWTVRTSSAKG	91
806	AFAGEDDFKVDIPETHGGEG---YEDEIDDEYE GDPWSNSSSSTSG	846
	**	**
	**	**

09/8/3, 719  
24 of 25

09/8/3, 719  
25 ♀ 25

Figure 25

